

What is milCloud® 2.0?

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April 4, 2018



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milCloud® 2.0 Phase 1(m2P1) Contract Overview

Acquisition	Full and Open	Contract value / ceiling	\$498M
Contract Type	Single Award IDIQ	Funded key milestones	Initial Operating Capability and DoD Level 5 Provision Authorization within 9 months of award
Award	June 2017		
Period of Performance	3-year base period, five 1-year option periods		

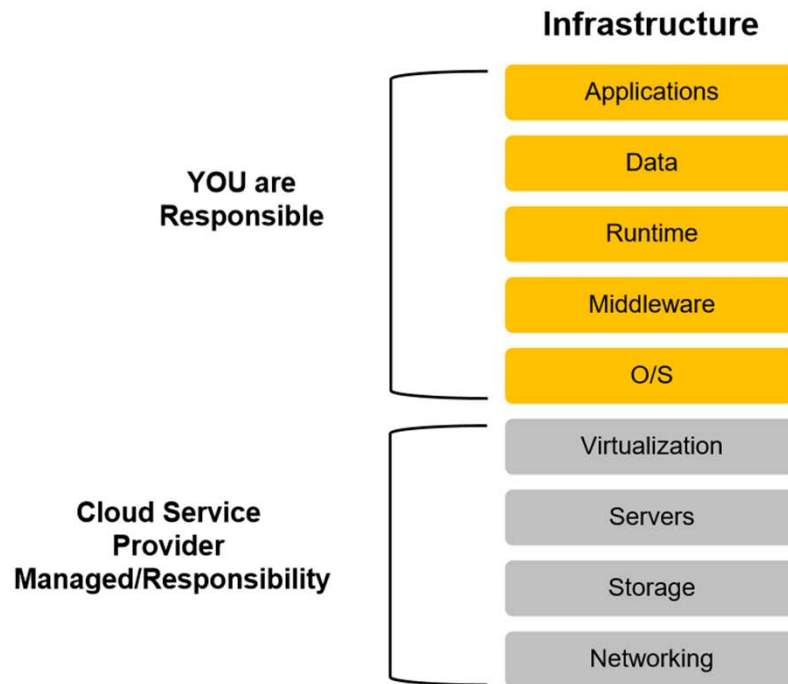
- m2P1 was accredited in accordance with the DoD Cloud Computing Security Requirement Guide (CC SRG) for Impact Level 5 workloads and data with Privacy overlay. Mission partner will be required to obtain ATOs via the RMF process for their applications/environments within milCloud® 2.0.
- DISA holds the contract with the Cloud Service Provider (CSP)
- The Mission Partner will purchase and manage services through the CSP portal, but will supply funding through DISA
 - MIPR (448 or 7600)
 - Government Credit Card via PAY.GOV
- CSP will generate monthly billing, and DISA will manage invoicing via the Financial Management Liaison Office (FMLO)

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Cloud Models



Infrastructure as a Service (IaaS)

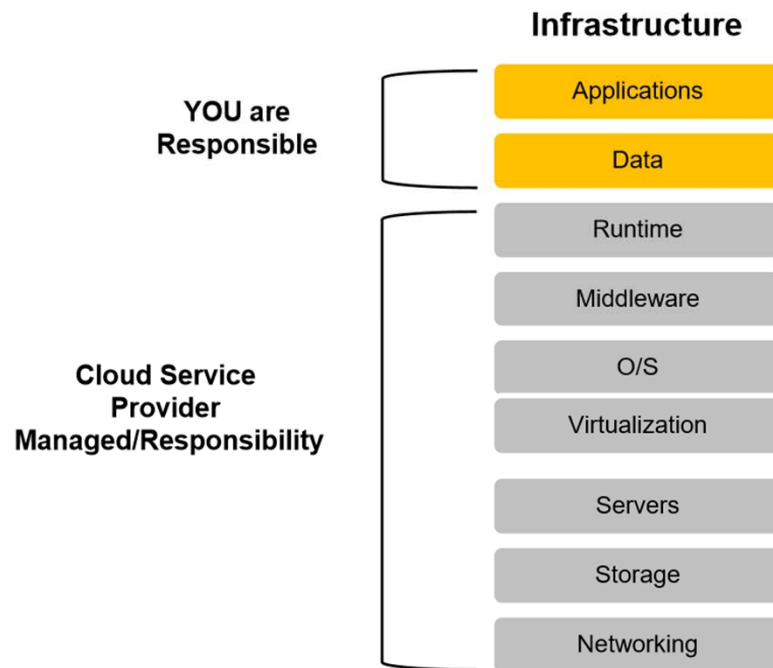


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Cloud Models



Platform as a Service (PaaS)



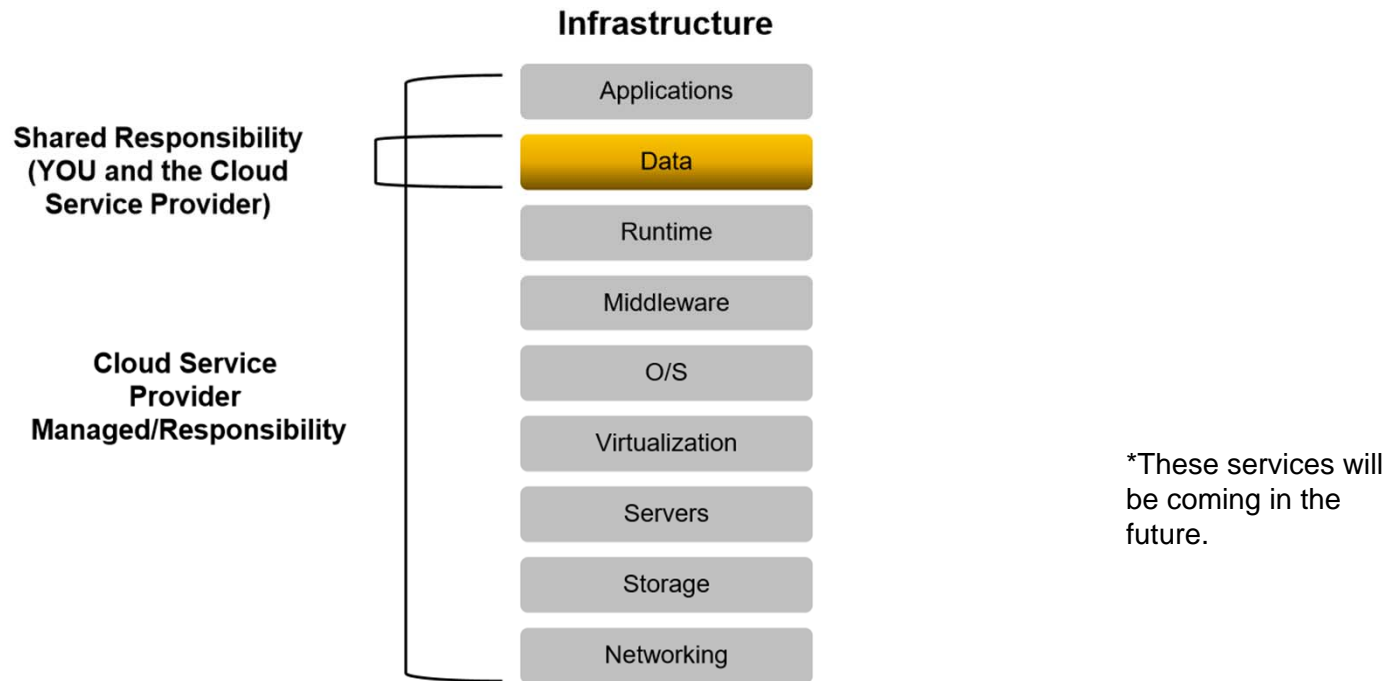
*These services will be coming in the future.

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Cloud Models



Software as a Service (SaaS)



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Feature Overview



Agile, Secure, and Cost-Effective Technology

- Orchestration and Business Management capabilities provide a rich and fully capable IaaS customer experience



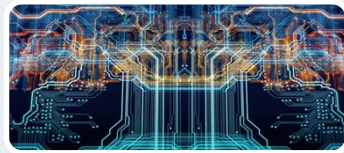
"Easy to Use" Infrastructure Management

- Continuous monitoring, updates, and upgrades with a "pay-as-you-go" catalog of IaaS and extended services.



Operational Resilience and Security

- Designed to meet FedRAMP HIGH and DoD Impact Level 5/6 baselines of security control requirements

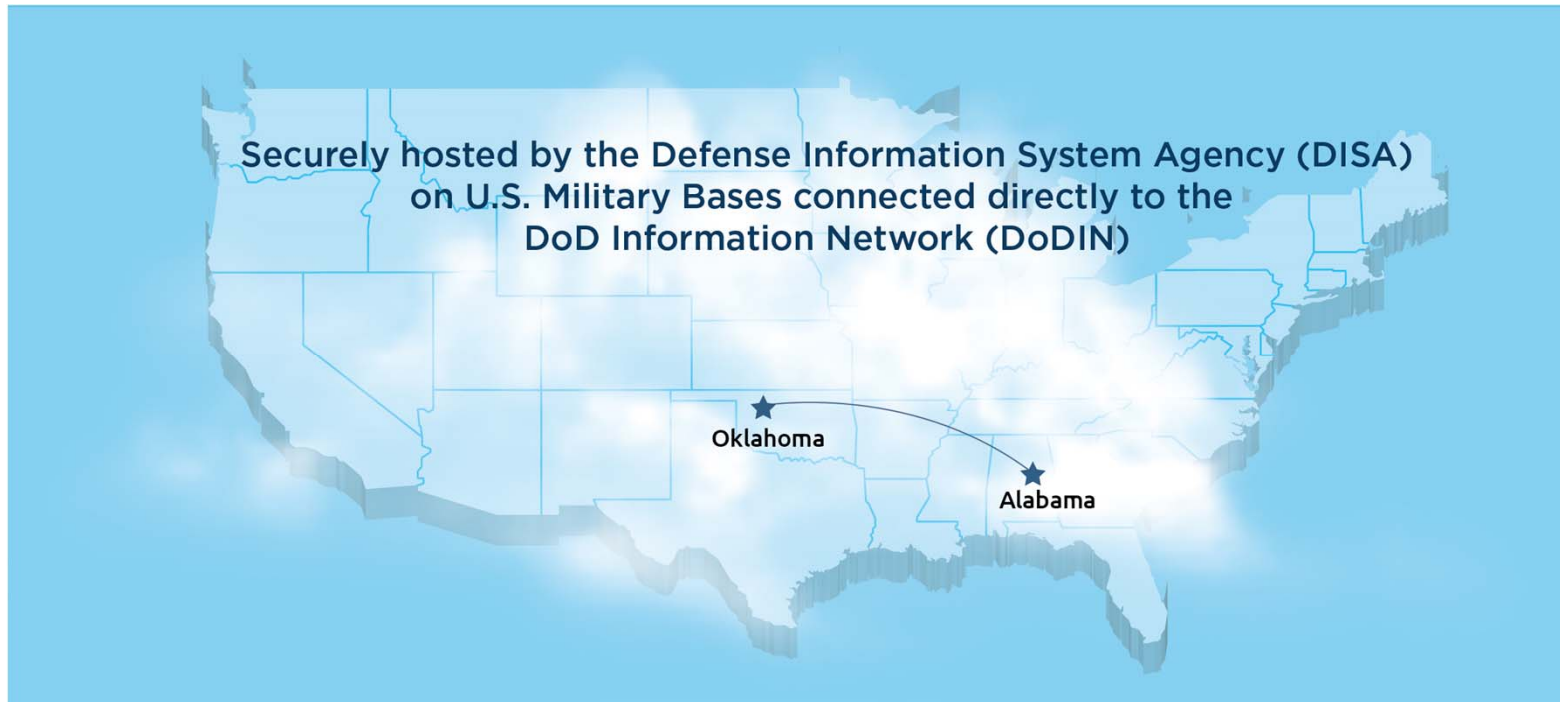


Pool Resources Create Value

- Reduced facility and infrastructure costs
- Certified engineering and administration labor
- Reduce the impact of nonrecoverable downtime
- Maintain government security policy
- Inherited asset and vendor management
- Elastic and scalable server, storage, network

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Feature Overview



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What is milCloud® 2.0?



Overview

- Meets DoD requirement for cloud infrastructure services in its data center facilities
- Connects commercial cloud service offerings to DoD networks in a private deployment model
- Provides DISA mission partners the latest cloud technology at competitive prices without compromising performance
- Flexible infrastructure hosting services tailored for sensitive government systems
- On-demand applications and self-service technology that eliminate cost and complexity.

Initial Capabilities

- Pay for usage
- FedRAMP High, DoD Impact Level 5
- IaaS Solution on DoD premises
- Service availability: 99.9%
- Incident reporting and management system
- Workload transition into and out of commercial IaaS
- Fully supports CAC authentication
- Role-based account provisioning
- Self-management tools support billing, monitoring, reporting
- Metrics-based usage metering
- “Out of the box” reports, dashboards, and alarms
- Customizable to meet mission requirements

Provides Non-classified Internet Protocol Router Network (NIPR) infrastructure services as well as other services (to include enhanced features and transition services)

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What's New?

Metered Billing

- Only pay when it is in a billable state
 - Servers - only when allocated and powered on
 - Storage - only when allocated to a server or shared pool
- Finer billing units
 - Servers - by the hour
 - Storage - by the GB per day
- Monitoring and alerting
 - Always know how much you are spending, and how much you have left

Flexible funds utilization – Purchase Cloud

“Units”

- Provide funds based on your initial estimate
- Configure and reconfigure as needed – Servers, Storage, Core Services

Funding

- Mission Partner must provide funds before receiving service
- Mission Partner is responsible to ensure that sufficient funds are available
- Service may be terminated if available funds are exhausted

Funding Mechanisms	Allowable Types of DoD Funding or LOAs
<ul style="list-style-type: none"> • Government Credit Card: Quickest Method • Funding Document (i.e. MIPR): milCloud provides tools to complete 	<ul style="list-style-type: none"> • Operations and Maintenance (O&M) • Research, Development, Test and Evaluation (RDT&E) • Procurement • Defense Working Capital

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IaaS Architecture Overview

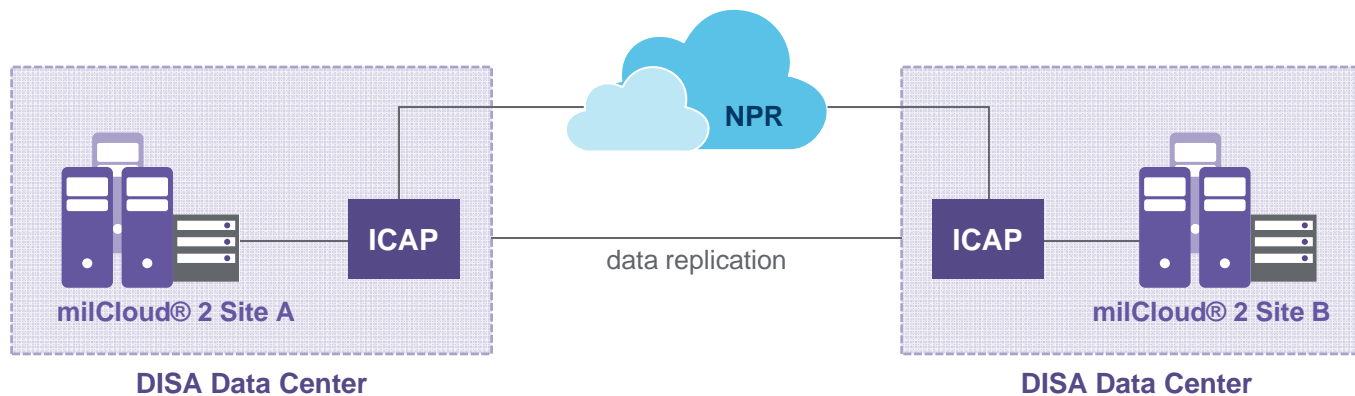


DISA provided

- Two (2) Data Center locations (power, cooling, and floor space)
- Physical security and resilient facility infrastructure
- DODIN boundary protection (ICAP)
- Network Services (Replication Circuit and NIPR access)

CSRA provided

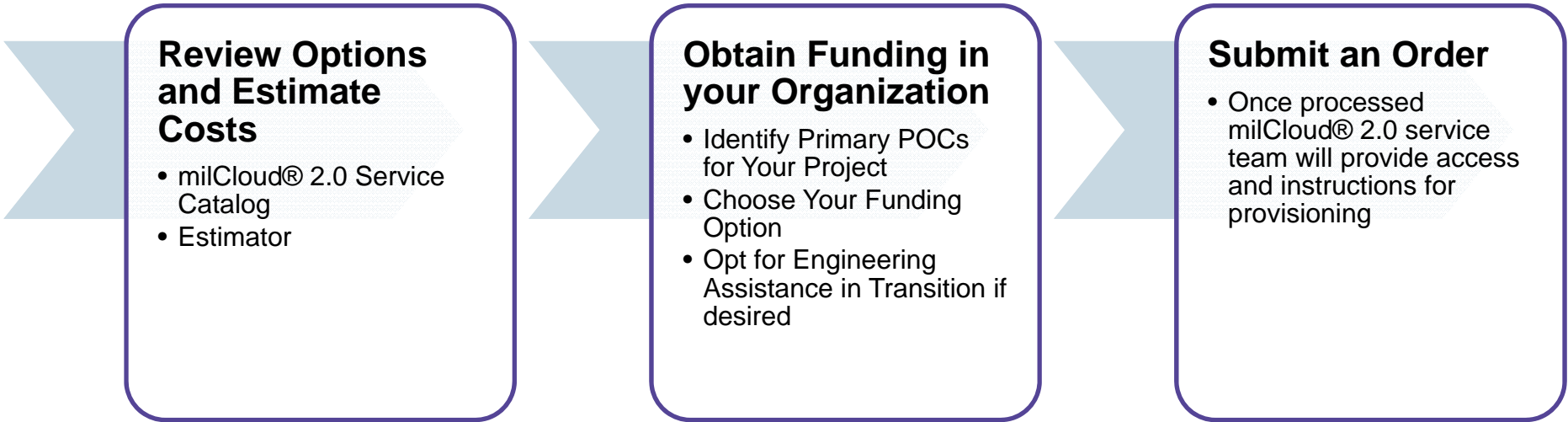
- Capitalized Infrastructure
- Remote management circuits
- Virtual Private Cloud and Virtual Machine capabilities
- Capacity Management
- Cloud Service Management



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Acquiring Cloud Services

Onboarding



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Service Catalog and Getting Assistance

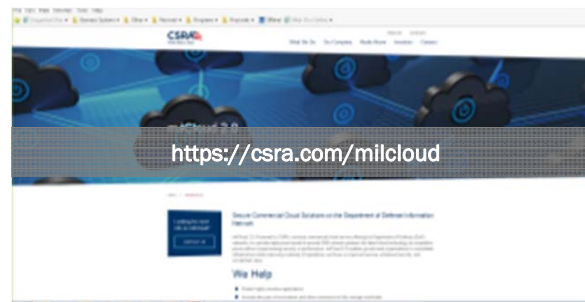
Onboarding



Product Family	Description
Compute	Virtual Machine (NIPR) Services
Storage	Block Storage and Backup Services
Network	Routable IP and VPN
Security	Patch Management, Logging, and Vulnerability Management
Other Services*	Security, Systems Administration, Platform-as-a-Service and Software-as-a-Service
Transition Services	Migration, application rationalization, agile development, and infrastructure strategy support

**Other Services are planned in the milCloud® 2.0 roadmap, and many will be offered when milCloud® 2.0 is publicly available.*

The milCloud® 2.0 Service Catalog is available as part of our Business Portal and Cost Calculator

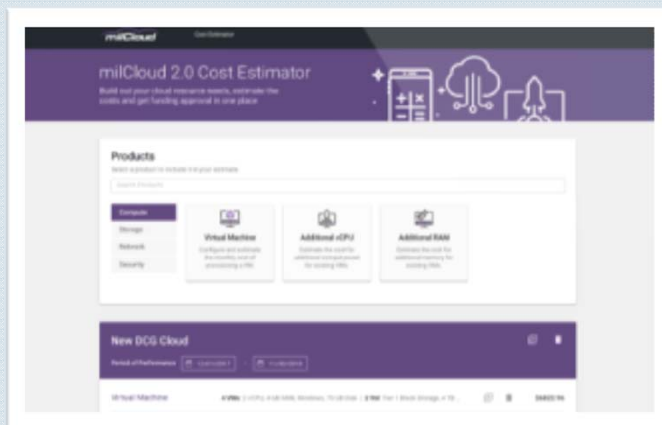


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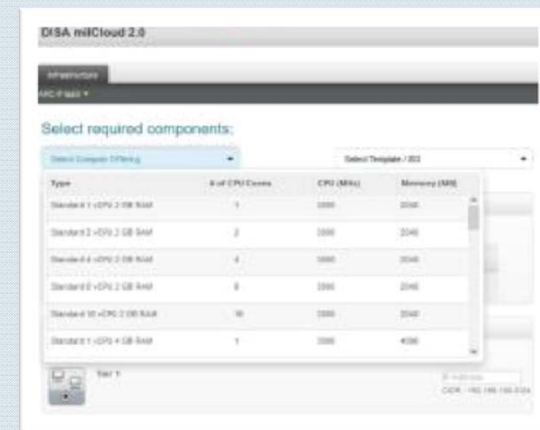
User Portals



Business Portal Pricing Calculator, Financial Management, Service Procurement



Provisioning Portal Infrastructure Management & Administration



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Considerations

Migration / Consulting



Network Traffic Flow

- East/West and North/South network traffic within the cloud environment(s) need to be considered and architected for each tenant and workload to avoid potential latency and maintain consistent security boundaries
- Customers should consider impacts of network traffic flows and the introduction of additional security boundaries to their architectures

Applications or Infrastructure Not Ready

- Attempting to migrate applications or architectures that are not optimized or consistent with the desired cloud environment can cause serious problems or failures.
- Customers should be conducting design reviews and application rationalization prior to cloud migration

Service Desk Operations

- Transforming to cloud hosting may involve changes to operations and personnel to ensure issues are rapidly resolved across application and infrastructure tiers
- Customers should be prepared for potential customer service calls and begin any migration process with customer outreach

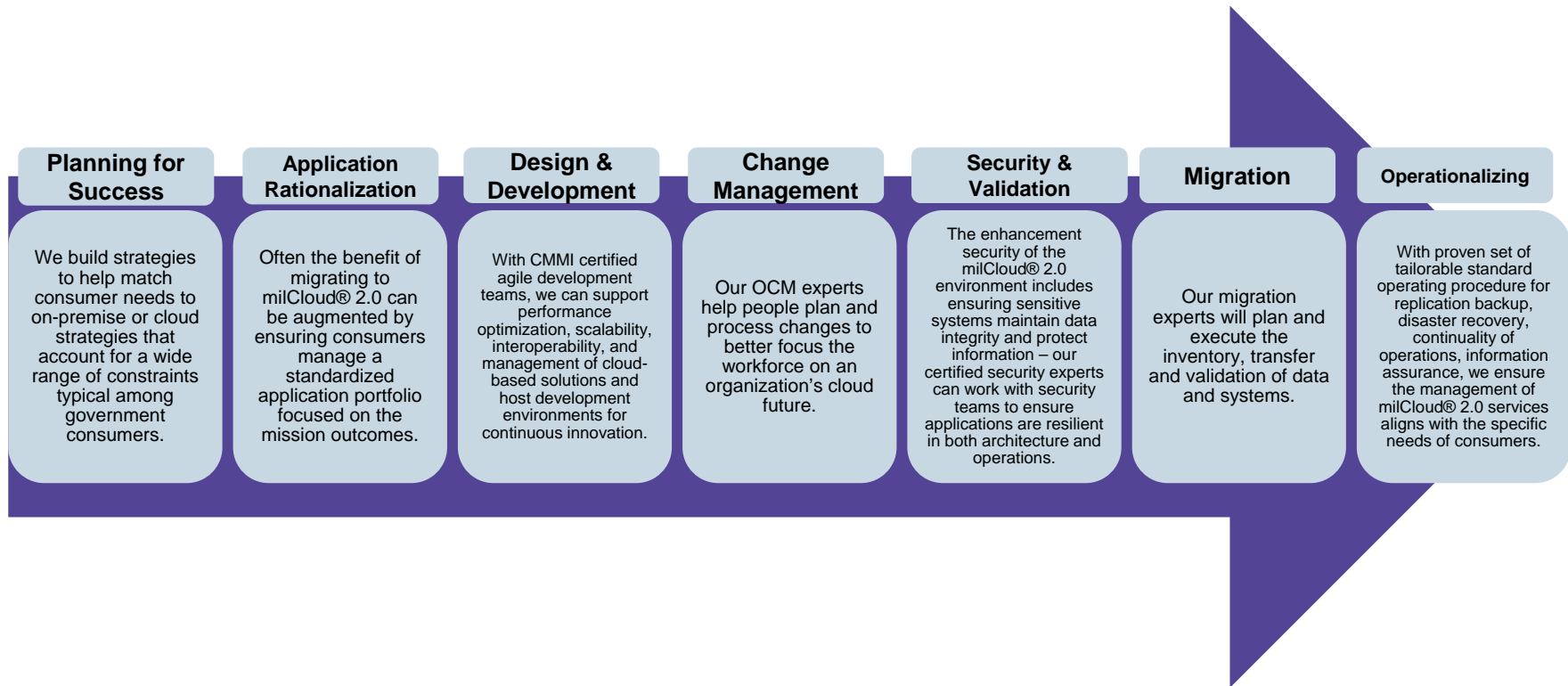
Network Scaling

- Servers and network devices may not be properly configured to handle large data transfer traffic that is typically related to cloud migrations
- When migrating large workloads to the cloud, these should be planned during off-peak hours and planning should be conducted to minimize potential network impact

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Migration Support

Migration / Consulting



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milCloud® 2.0 – Other Services

- **IL 5 PA achieved March 2018**
 - **Future Offerings: milCloud®+ (provided by DISA)**
 - DISA offering similar to milCloud 1.0
 - System Administration and OS maintenance
 - Optional fee for App and DB support
 - **Engineering and Transition Services (provided by CSRA)**
 - **CSSP Services (provided by DISA)**
 - Endpoint Security and asset scanning (HBSS, ACAS)
- **On the Horizon: Preparing to implement**
 - **Platform-as-a-Service**
 - Red Hat OpenShift by CSRA
 - **Software-as-a-Service**
 - **SIPR**

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Other Services – CSRA provided

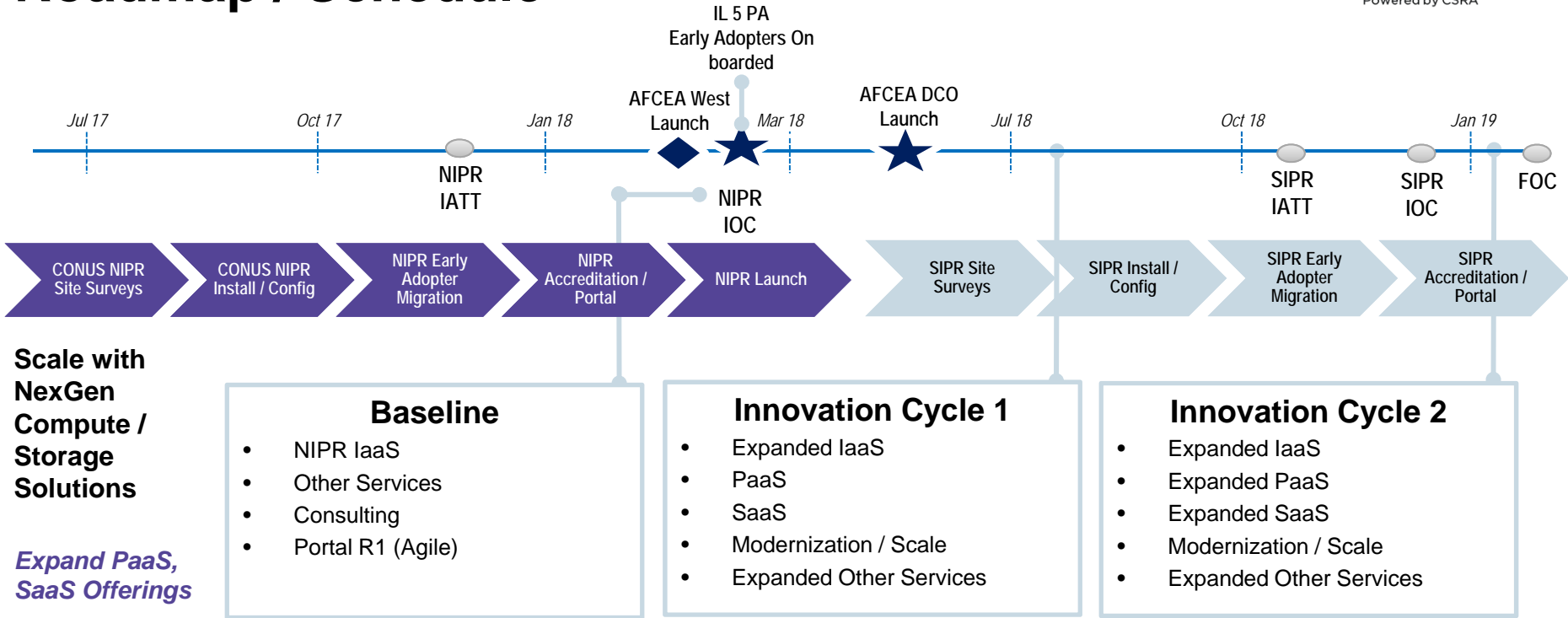


Product Families	High-Level Description
IA Operations	Regulatory / STIG
Identity Management	Application Identity Management and Provisioning (IAM, PKI, Provisioning)
Configuration Management Service	By Endpoint, By Sensor, By Network
Systems Administration	Supporting CENTOS, Linux, Windows Server, Windows 10
Database Administration	Supporting SQL, Oracle, and NOSQL
Web Server Administration	Supporting Apache, IIS, and Tomcat
Future Services	Additional services will be provided over time to meet customer demand

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Roadmap / Schedule



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Thank you!



For more information please contact

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